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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=17; hr=10; min=39; sec=31; ms=11;]

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Application No: 10031289 Version No: 2.0

Input Set:

Output Set:

Started: 2008-10-20 17:40:30.056
Finished: 2008-10-20 17:40:47.519
Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 463 ms
Total Warnings: 349
Total Errors: 52
No. of SeqIDs Defined: 1859
Actual SeqID Count: 1859

Error code	Error Description
W 251	Found intentionally skipped sequence in SEQID (2)
W 251	Found intentionally skipped sequence in SEQID (9)
W 251	Found intentionally skipped sequence in SEQID (31)
W 251	Found intentionally skipped sequence in SEQID (32)
W 251	Found intentionally skipped sequence in SEQID (40)
W 251	Found intentionally skipped sequence in SEQID (47)
W 251	Found intentionally skipped sequence in SEQID (53)
W 251	Found intentionally skipped sequence in SEQID (55)
W 251	Found intentionally skipped sequence in SEQID (77)
W 251	Found intentionally skipped sequence in SEQID (78)
W 251	Found intentionally skipped sequence in SEQID (86)
W 251	Found intentionally skipped sequence in SEQID (102)
W 251	Found intentionally skipped sequence in SEQID (108)
W 251	Found intentionally skipped sequence in SEQID (109)
W 251	Found intentionally skipped sequence in SEQID (115)
W 251	Found intentionally skipped sequence in SEQID (116)
W 251	Found intentionally skipped sequence in SEQID (120)
W 251	Found intentionally skipped sequence in SEQID (129)
W 251	Found intentionally skipped sequence in SEQID (130)
W 251	Found intentionally skipped sequence in SEQID (136)

Input Set:

Output Set:

Started: 2008-10-20 17:40:30.056
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Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 463 ms
Total Warnings: 349
Total Errors: 52
No. of SeqIDs Defined: 1859
Actual SeqID Count: 1859

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 401	Unrecognized range formatin <222> in SEQID (592)
E 341	'Xaa' position not defined SEQID (592) POS (3)
E 341	'Xaa' position not defined SEQID (592) POS (5)
W 401	Unrecognized range formatin <222> in SEQID (618)
E 341	'Xaa' position not defined SEQID (618) POS (7)
E 341	'Xaa' position not defined SEQID (618) POS (13)
W 401	Unrecognized range formatin <222> in SEQID (621)
E 341	'Xaa' position not defined SEQID (621) POS (5)
E 341	'Xaa' position not defined SEQID (621) POS (7)
W 401	Unrecognized range formatin <222> in SEQID (649)
E 341	'Xaa' position not defined SEQID (649) POS (7)
E 341	'Xaa' position not defined SEQID (649) POS (13)
W 401	Unrecognized range formatin <222> in SEQID (652)
E 341	'Xaa' position not defined SEQID (652) POS (1)
E 341	'Xaa' position not defined SEQID (652) POS (3)
W 401	Unrecognized range formatin <222> in SEQID (822)
E 341	'Xaa' position not defined SEQID (822) POS (3)
E 341	'Xaa' position not defined SEQID (822) POS (5)
W 401	Unrecognized range formatin <222> in SEQID (858)
E 341	'Xaa' position not defined SEQID (858) POS (7)
E 341	'Xaa' position not defined SEQID (858) POS (13)

Input Set:

Output Set:

Started: 2008-10-20 17:40:30.056
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Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 463 ms
Total Warnings: 349
Total Errors: 52
No. of SeqIDs Defined: 1859
Actual SeqID Count: 1859

Error code	Error Description
W 401	Unrecognized range formatin <222> in SEQID (861)
E 341	'Xaa' position not defined SEQID (861) POS (5)
E 341	'Xaa' position not defined SEQID (861) POS (7)
W 401	Unrecognized range formatin <222> in SEQID (899)
E 341	'Xaa' position not defined SEQID (899) POS (7)
E 341	'Xaa' position not defined SEQID (899) POS (13)
W 401	Unrecognized range formatin <222> in SEQID (902)
E 341	'Xaa' position not defined SEQID (902) POS (1)
E 341	'Xaa' position not defined SEQID (902) POS (3) This error has occured more than 20 times, will not be displayed
W 401	Unrecognized range formatin <222> in SEQID (1159)
W 401	Unrecognized range formatin <222> in SEQID (1605)
W 401	Unrecognized range formatin <222> in SEQID (1615)
E 342	'n' position not defined found at POS: 1837 SEQID(1790)
E 342	'n' position not defined found at POS: 1909 SEQID(1790)
E 342	'n' position not defined found at POS: 1939 SEQID(1790)
E 342	'n' position not defined found at POS: 1941 SEQID(1790)
E 342	'n' position not defined found at POS: 1959 SEQID(1790)
E 342	'n' position not defined found at POS: 2079 SEQID(1790)
E 342	'n' position not defined found at POS: 2084 SEQID(1790)
E 342	'n' position not defined found at POS: 2085 SEQID(1790)
E 342	'n' position not defined found at POS: 2113 SEQID(1790)
E 342	'n' position not defined found at POS: 2120 SEQID(1790)

Input Set:

Output Set:

Started: 2008-10-20 17:40:30.056

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Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 463 ms

Total Warnings: 349

Total Errors: 52

No. of SeqIDs Defined: 1859

Actual SeqID Count: 1859

Error code	Error Description
E 342	'n' position not defined found at POS: 2236 SEQID(1790)
E 342	'n' position not defined found at POS: 2237 SEQID(1790)
E 342	'n' position not defined found at POS: 2238 SEQID(1790)
E 342	'n' position not defined found at POS: 2242 SEQID(1790)
E 342	'n' position not defined found at POS: 2244 SEQID(1790)

SEQUENCE LISTING

<110> CHIRON SpA
 MASIGNANI Vega
 SCARLATO Vincenzo
 SCARSELLI Maria
 GALEOTTI Cesira

<120> ANTIGENIC MENINGOCOCCAL PEPTIDES

<130> 22300-21002.00

<140> 10031289

<141> 2002-05-31

<150> PCT/IB00/01026

<151> 2000-07-13

<150> GB-9916529.2

<151> 1999-07-14

<160> 1859

<170> SeqWin99, version 1.02

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1 5 10

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1 5

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1 5 10

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1 5 10 15

Phe Gly

<210> 7
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1 5

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<211> 19
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 1 5 10 15

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 <210> 22

<211> 23
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<210> 26
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<210> 38
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<400> 38
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<210> 39
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1 5 10 15

Glu Ala Ala Lys Thr Ala Ala Gln Gly Lys Gly Lys Gly
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1	5	10
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1			5			

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Leu	Asp
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<210>	44
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Leu Gly Met Leu Asp Thr Leu Ser Lys Leu
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<211> 9

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Leu Glu Glu Tyr Phe Lys Thr Thr Lys
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<210> 57
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Gln Ala Val

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1	5	10	15
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<210> 63
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<210> 66
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1 5 10 15

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1 5 10 15

<210> 68
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